

Title (en)

METHOD FOR ADDITIVELY MANUFACTURING AN OPHTHALMIC LENS AND OPHTHALMIC LENS

Title (de)

VERFAHREN ZUR GENERATIVEN FERTIGUNG EINES BRILLENGLASES UND BRILLENGLAS

Title (fr)

PROCÉDÉ DE FABRICATION ADDITIVE D'UNE LENTILLE OPHTALMIQUE ET LENTILLE OPHTALMIQUE

Publication

EP 3495127 A1 20190612 (EN)

Application

EP 17306711 A 20171206

Priority

EP 17306711 A 20171206

Abstract (en)

A method of manufacturing an ophthalmic lens, comprising:- a step of providing a starting optical system (30) having a first optical function and a first main refractive index,- a step of providing a transition layer (20) intended to be disposed between the starting optical system (30) and a complementary optical element (12) having a second main refractive index, the transition layer (20) aiming at reducing unwanted reflection caused by the mismatch between the first and the second main refractive index, the transition layer (20) having a transition optical function, and- a step of additively manufacturing the complementary optical element (12) on the transition layer (20), the complementary optical element (12) having a second optical function, the second optical function being predetermined as a function of the first optical function and of the transition optical function.

IPC 8 full level

B29D 11/00 (2006.01); **B33Y 80/00** (2015.01)

CPC (source: EP US)

B29D 11/00009 (2013.01 - EP); **B29D 11/00432** (2013.01 - EP US); **B29D 11/0073** (2013.01 - EP US); **B33Y 80/00** (2014.12 - EP); **B33Y 80/00** (2014.12 - US)

Citation (applicant)

US 4679918 A 19870714 - ACE RONALD S [US]

Citation (search report)

- [XAY] EP 2878989 A1 20150603 - ZEISS CARL VISION INT GMBH [DE], et al
- [XA] KR 20160029107 A 20160314 - ESSILOR INT [FR]
- [XAY] EP 0975993 A1 20000202 - INNOTECH INC [US]
- [XA] US 2009091825 A1 20090409 - SAITO TORU [JP], et al
- [XA] US 2008023137 A1 20080131 - JIANG PEIQI [US], et al
- [XA] US 2008254210 A1 20081016 - LAI SHUI T [US], et al
- [XA] US 2015241714 A1 20150827 - ALLIONE PASCAL [FR], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 17306711 A 20171206; CN 201880078857 A 20181205; EP 18811285 A 20181205; EP 2018083696 W 20181205; US 201816770361 A 20181205